

MATERIAL SAFETY DATA SHEET

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SECTION A - PRODUCT INFORMATION

TRADE NAME : ASA-FLOW 405
CAS NUMBER : PHTHALOCYANINE GREEN
SYNONYMS : 1328-53-6
CHEMICAL FAMILY : PHTHALO GREEN; C.I. PIGMENT GREEN 7, C.I. #74260
FORMULA : PHTHALOCYANINE: COPPER COMPLEX PIGMENT
C32H28N8CuCl14

REVISION DATE : AUGUST 9, 2006

SECTION B - HAZARDOUS COMPONENTS

| COMPONENT | CAS NO. | % | PEL/TLV |
|---|-----------|-----|---|
| COPPER (AS AN INTEGRAL PART OF DYE MOLECULE) | 7440-50-8 | ≤5% | 1 mg/m ³ OSHA TWA, DUSTS & MISTS AS Cu 0.1 mg/m ³ ACGIH TWA, INHALABLE AS Cu |

SECTION C - PHYSICAL PROPERTIES

BOILING POINT (°) : N/A
MELTING POINT (°) : UNKNOWN
VAPOR PRESSURE (mm Hg) : N/A
VAPOR DENSITY (AIR=1) : N/A
SOLUBILITY IN WATER : INSOLUBLE
ODOR THRESHOLD : N/A
APPEARANCE & ODOR : GREEN, ODORLESS FINE POWDER

SPECIFIC GRAVITY : 2.0-2.4
FREEZING POINT (°) : N/A
PERCENT VOLATILE (BY WT.) : NEGLIGIBLE
EVAPORATION RATE : N/A
pH (10% IN WATER) : 7-8

SECTION D - FIRE & EXPLOSION DATA

FLASH POINT (°) : NOT AVAILABLE
FLAMMABLE LIMITS : LEL : (UNKNOWN) UEL : (UNKNOWN)
EXTINGUISHING MEDIA : WATER : (X) FOAM : (X) CO₂ : (X) DRY CHEMICAL : (X)
AUTO IGNITION TEMP (° F) : (UNKNOWN)

SPECIAL FIRE FIGHTING PROCEDURES : USE PROTECTIVE EQUIPMENT INCLUDING SELF CONTAINED BREATHING APPARATUS. PREVENT RUN OFF TO SEWERS AND BODIES OF WATER FROM FIRE FIGHTING INVOLVING THIS PRODUCT, AS PRODUCT CONTAINS CLEAN WATER ACT PRIORITY POLLUTANTS.
UNUSUAL FIRE & EXPLOSION HAZARDS : AS WITH ANY ORGANIC COMPOUND, DUST CLOUD FORMATION FROM PIGMENT POWDER MAY CREATE A DUST CLOUD EXPLOSION HAZARD.

SECTION E - REACTIVITY DATA

STABILITY : STABLE
INCOMPATIBILITY : STRONG OXIDIZING AGENTS
HAZARDOUS DECOMPOSITION PRODUCTS : WHEN HEATED TO DECOMPOSITION MAY EMIT TOXIC FUMES OF NITROUS OXIDES, OXIDES OF CARBON, OR OTHER TOXIC COMPOUNDS, RESIDUE WILL CONTAIN COPPER.
HAZARDOUS POLYMERIZATION : WILL NOT OCCUR
CONDITIONS TO AVOID : NONE KNOWN

SECTION F - PERSONAL PROTECTIVE EQUIPMENT INFO

RESPIRATORY EQUIPMENT : USE NIOSH APPROVED RESPIRATOR OR DUST MASK WHEN DUSTY CONDITIONS ARE PRESENT.
PROTECTIVE GLOVES : RECOMMENDED
EYE PROTECTION : SAFETY GLASSES ARE RECOMMENDED
VENTILATION : LOCAL EXHAUST VENTILATION RECOMMENDED TO MEET PERMISSIBLE EXPOSURE LIMIT (SEE SECTION B).
OTHER PROTECTIVE EQUIPMENT : PROTECTIVE CLOTHING